

Title (en)
IMAGE DISPLAY DEVICE

Title (de)
BILDANZEIGEVORRICHTUNG

Title (fr)
DISPOSITIF D'AFFICHAGE D'IMAGE

Publication
EP 2639621 B1 20190918 (EN)

Application
EP 11839150 A 20111101

Priority
• JP 2010249653 A 20101108
• JP 2011006117 W 20111101

Abstract (en)
[origin: EP2639621A1] The image display device resolves inconsistency in the brightness of the image while effectively reducing local speckle noise that remains due to the laser scanning of which the scanning speed fluctuates. A waveform pattern (PT2) that includes an on period and an off period within the pixel displaying period (T2) is selected for the center pixel (P512). A waveform pattern (PT1) that includes an on period and an off period within the pixel displaying period (T1) that is longer than the pixel displaying period (T2) is selected for the side pixel (P1) or (P1023) that is scanned at a scanning speed slower than that for the center pixel (P512). Here, the on period in the waveform pattern (PT1) is segmented more than the on period in the waveform pattern (PT2), and the time ratio of the on period accounting for the waveform pattern (PT1) is smaller than the time ratio of the on period accounting for the waveform pattern (PT2).

IPC 8 full level
G02B 26/10 (2006.01); **G02B 27/48** (2006.01); **G09G 3/02** (2006.01); **H04N 5/74** (2006.01); **H04N 9/31** (2006.01)

CPC (source: CN EP KR US)
G02B 26/10 (2013.01 - KR); **G02B 27/48** (2013.01 - CN EP US); **G03B 21/14** (2013.01 - KR); **G09G 3/02** (2013.01 - CN EP KR US); **H04N 9/3129** (2013.01 - CN EP US); **H04N 9/3135** (2013.01 - CN EP US)

Cited by
US10313645B1; WO2019143525A1

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
EP 2639621 A1 20130918; EP 2639621 A4 20171115; EP 2639621 B1 20190918; CN 103201668 A 20130710; CN 103201668 B 20160518; CN 105759443 A 20160713; CN 105759443 B 20180515; JP 2012103327 A 20120531; JP 5687880 B2 20150325; KR 20130143599 A 20131231; US 2013222774 A1 20130829; US 2016247431 A1 20160825; US 9298013 B2 20160329; US 9865188 B2 20180109; WO 2012063430 A1 20120518

DOCDB simple family (application)
EP 11839150 A 20111101; CN 201180053852 A 20111101; CN 201610245224 A 20111101; JP 2010249653 A 20101108; JP 2011006117 W 20111101; KR 20137014733 A 20111101; US 201113883035 A 20111101; US 201615048093 A 20160219